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R. E. Sigmon  
Vice President - Regulatory Affairs

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September 20, 1993

RECEIVED

SEP 20 1993

Mr. William F. Canton, Acting Secretary  
Federal Communications Commission  
1919 M Street, N.W., Room 222  
Washington, D.C. 20554

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

In the Matter of:

800 Data Base Access Tariffs and the  
800 Service Management System Tariff

)  
)  
) DA 93-930  
) CC Docket No. 93-129  
)  
)  
)

Dear Mr. Caton:

Enclosed for filing are the original and four copies (4) of Cincinnati Bell Telephone Company's Direct Case in CC Docket No. 93-129.

Also provided is a duplicate of this letter and the enclosures. Please date stamp and return this duplicate as acknowledgement of its receipt.

Questions regarding this Direct Case should be addressed to Mrs. Jerlian Jones at (513) 397-1408 or faxed to her at (513) 241-9115.

Sincerely,

A handwritten signature in cursive script that reads "Robert E. Sigmon".

Enclosures

**BEFORE THE  
FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20554**

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SEP 20 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

In the Matter of )

800 Data Base Access Tariffs and the )

CC Docket No. 93-129 /

800 Service Management System Tariff )

**DIRECT CASE OF CINCINNATI BELL TELEPHONE COMPANY**

**I. Introduction.**

On January 29, 1993, the Commission released its Memorandum Opinion and Order on Further Reconsideration in CC Docket No. 86-10 requiring local exchange carriers (LECs), including Cincinnati Bell Telephone Company (CBT), to tariff 800 data base service.<sup>1</sup> CBT filed Transmittal No. 622 on March 5, 1993 in compliance with the Memorandum Opinion and Order on Further Reconsideration, as modified by the Commission's Memorandum Opinion and Order released February 22, 1993.<sup>2</sup> By its Order released April 28, 1993, the Common Carrier Bureau (Bureau) suspended CBT's 800 data base tariff (and the tariffs of the other LECs offering 800 data base service), imposed an accounting order, and initiated an investigation with issues to be designated in a subsequent order.<sup>3</sup> On July 19, 1993, the Bureau released its Order Designating

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<sup>1</sup>Provision of Access for 800 Service, Memorandum Opinion and Order on Further Reconsideration, CC Docket No. 86-10, FCC 93-54 (released January 29, 1993).

<sup>2</sup>Provision of Access for 800 Service, Memorandum Opinion and Order, CC Docket No. 86-10, DA 93-202 (released February 22, 1993).

<sup>3</sup>800 Data Base Access Tariffs, Order, CC Docket No. 93-129, DA 93-491 (released April 28, 1993).

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Issues For Investigation (Order) with respect to the LECs' 800 data base tariffs.<sup>4</sup> CBT hereinafter addresses the various issues raised in the Order and demonstrates that its 800 data base tariff is just and reasonable. In addition, CBT provides the completed spreadsheet and other information requested in Appendix B to the Order.

## **II. Issues Designated For Investigation.**

### **A. TERMS AND CONDITIONS.**

**Issue 1: The degree of clarity with which the LEC 800 data base tariffs describe the services offered.**

The Bureau requests comment on whether the terms and conditions of the 800 data base tariffs are consistent with the Communications Act and with the Commission's Orders in CC Docket No. 86-10.<sup>5</sup> Specifically, the Bureau invites comment on whether LECs have stated clearly that basic 800 query service includes area of service routing at the LATA level and whether LECs have clearly described when they will charge for a query. The tariff provisions proposed in CBT's Transmittal No. 622 clearly describe the services offered and are entirely consistent with the Communications Act and the Commission's Orders.

In providing 800 data base service, CBT uses the Service Control Point (SCP) services of the Ameritech Operating Companies. Because CBT is using Ameritech's SCP services, CBT is necessarily limited to offering the same basic features as Ameritech, including area of service routing. CBT interprets Ameritech's 800 data base tariff as treating all area of service routing

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<sup>4</sup>800 Data Base Access Tariffs and the 800 Service Management System Tariff, Order Designating Issues for Investigation, CC Docket No. 93-129, DA 93-930 (released July 19, 1993).

<sup>5</sup>Order at para. 6.

instructions based on an NPA-NXX area or larger as basic 800 access. While CBT is not responsible for the terms and conditions of Ameritech's 800 data base tariff, CBT understands that Ameritech will offer area of service routing at the LATA level as part of basic 800 query service. Accordingly, CBT will also offer area of service routing at the LATA level as part of basic 800 query service.

CBT's tariff also clearly describes when CBT will charge for a query. CBT's tariff imposes a recurring charge for each data base query that returns a valid carrier identification code providing the appropriate routing information. This provision is consistent with the Commission requirement that CBT and other LECs "adopt a per query charge for 800 data base because the data base query is a distinct part of the set up of an 800 call."<sup>6</sup> The Commission specifically decided that "LECs may charge IXCs for completed queries even if the LEC never actually delivers the associated call to the IXC."<sup>7</sup> CBT's SCP provider charges CBT when the carrier identification code is returned, whether or not the associated call is ever delivered. In addition, CBT incurs costs for transporting the query to the regional SCP even if the associated call is not delivered. CBT must be permitted to charge for a query regardless of whether the associated call is delivered in order to recover these costs.

With regard to the remaining matters listed under Issue 1, CBT is not marketing vertical features directly to end users. Finally, CBT does not provide RESPORG service and offers no comment on matters relating to the SMS/800 tariff.

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<sup>6</sup>Provision of Access for 800 Service, Second Report and Order, CC Docket No. 86-10, FCC 93-53 (released January 29, 1993) at para. 13.

<sup>7</sup>Id. at para 14.

**B. 800 DATA BASE QUERY TARIFFS - RATE OF RETURN CARRIERS.**

**Issue 4: The rate of return LECs' role in providing the services offered in their tariffs.**

A LEC offering 800 data base service that does not own an SSP must route 800 calls that originate in its service area to a neighboring LEC equipped with the SSP facilities necessary to query the 800 data base. The Bureau acknowledges that the originating LEC is free to bill the IXC for the charges associated with both its services and the services of the neighboring LEC.<sup>8</sup> The Bureau invites comment, however, on whether the originating LEC may tariff charges for query service when the neighboring LEC, which actually performs the query service, also has query service charges in its tariff.<sup>9</sup> CBT has its own SSPs, so this issue does not directly apply to CBT. CBT submits, however, that the originating LEC may properly tariff charges for basic query service in this situation if that LEC can demonstrate additional costs incurred in providing the service. In any event, the customer would be charged by only one LEC. With regard to CBT's 800 data base service, the originating LEC using CBT's SSP will bill the originating LEC's tariffed basic query charge to the customer. For vertical features, however, the originating LEC cannot be identified. Accordingly, for LECs using CBT's SSP to provide vertical features, CBT will bill the customer at CBT's tariffed rate regardless of which LEC originates the call.

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<sup>8</sup>Order at para. 34.

<sup>9</sup>Order at para. 34.

**Issue 5: Query and vertical features rate development.**

**Subissue: Do these tariffs properly flow through changes in LEC costs of providing basic query service and vertical features?**

The Bureau directed LECs who do not own SCPs but initiate queries as part of their 800 call processing to address whether reductions in the tariffed rates of the SCP owners require reductions in the tariffed rates of non-SCP owners.<sup>10</sup> As noted above, CBT does not own its SCPs. Rather, CBT utilizes the SCP services of Ameritech. As stated in CBT's Transmittal No. 622, CBT will modify its tariff to reduce (or increase), on a dollar-for-dollar basis, those components of CBT's query rate that are simply pass-throughs from Ameritech promptly after Ameritech reduces (or increases) such costs to CBT. Because Ameritech has not reduced its basic query and vertical features rates since the original filing date of March 5, 1993, CBT's query rates have not been adjusted.

**Subissue: Have the rate of return LECs properly stated the demand on which their query rates are based?**

The Bureau directed LECs that have adjusted their demand figures based on unbillable queries to demonstrate that such adjustments are warranted and that their demand estimates are reasonable.<sup>11</sup> As more fully described in the Description and Justification to CBT's Transmittal No. 622, CBT based its forecast for 800 data base queries on time series analysis of messages and attempts for 800 services. CBT did not adjust its demand forecast for unbillable queries.

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<sup>10</sup>Order at para. 35.

<sup>11</sup>Order at para. 36.

**Issue 6: Reasonableness of CCSCIS cost allocations.**

The Bureau has directed CBT and other LECs that use computer models to apportion the investment associated with providing 800 data base service, such as the Common Channel Signalling Cost Information System (CCSCIS), to disclose those models on the record if the models are used to justify 800 data base rates.<sup>12</sup> If the LEC prefers not to disclose the model, it must provide some other justification for the rates. As stated in the Description and Justification to CBT's Transmittal No. 622, CBT employed the CCSCIS model to calculate the SS7 investments used for 800 data base service. The CCSCIS model is considered both a trade secret and proprietary by Bell Communications Research, Inc. (Bellcore), the owner of CCSCIS. By agreement with Bellcore, CBT (and other LECs) are restricted from disclosing the model. Further, CBT is not aware of any other means or process for developing those investments that would not also involve applications of proprietary data and models.

Bellcore is actively participating in this docket and has had discussions with the Bureau regarding disclosure of Bellcore's CCSCIS model.<sup>13</sup> In addition, Bellcore has filed a Petition for Waiver requesting that the Bureau waive the requirement that LECs disclose the CCSCIS model on the record and proposing a methodology for protecting the proprietary nature of CCSCIS while providing the Bureau with the information necessary to conduct its investigation. CBT urges the Bureau to address this issue in the context of Bellcore's Petition for Waiver.

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<sup>12</sup>Order at para. 37.

<sup>13</sup>E.g., Ex Parte Statement of James F. Britt, Bell Communications Research, Inc., filed August 3, 1993.

### **III. Demand/Other Issues.**

In Appendix B to the Order, the Bureau has directed CBT to respond to certain questions regarding demand estimates and other issues, in addition to completing the required spreadsheet. With regard to demand, as shown on the attached spreadsheet, CBT used a demand forecast of 261,941,003 queries in its cost calculations for 800 data base service. CBT's demand forecast is fully described and justified in Transmittal No. 622. CBT did not lower its demand estimate to compensate for unbillable queries.

With regard to the Bureau's other questions, the only SCP provider for CBT's query service is the Ameritech Operating Companies. CBT does not use a transport provider in connection with 800 data base service. The per query rates on which CBT's rates were based are \$0.0012 for basic features and \$0.0002 for vertical features. The foregoing rates are pass-throughs from CBT's SCP provider, and CBT's SCP provider has not revised its rates since CBT filed its Transmittal No. 622. Attached to the spreadsheet required by the Bureau are worksheets showing relevant data and calculations with regard to CBT's 800 data base service.

### **IV. Conclusion.**


As shown herein and as demonstrated on the attached completed spreadsheet and supporting documentation, CBT's 800 data base tariff is reasonable and fully complies with all



applicable Commission requirements. Accordingly, the Bureau's investigation into CBT's Transmittal No. 622 should be terminated and the accounting order removed.

Respectfully submitted,

FROST & JACOBS

By: 

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Attorneys for Cincinnati Bell  
Telephone Company

Dated: September 20, 1993

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## ATTACHMENT

The following is a description of the spreadsheets required by the Bureau to be attached to CBT's Direct Case:

### Page B-1

The Unit Investments for the Local STP/Regional STP Signalling Link were developed from the facility cost portion of CBT's 800 data base cost study performed in connection with CBT's 800 data base tariff filing. A description of CBT's 800 data base cost study can be found at pages 6-7 of the Description and Justification to Transmittal No. 622. Unit Costs for the Local STP/Regional STP Signalling Link were developed as described on Worksheet 1.

### Page B-2

CBT uses four signalling links in connection with its 800 data base service. The Total Investment subject to separations for the Local STP/Regional STP Signalling Link is, therefore, four times the Unit Investment, as demonstrated on Page B-1. The investment is separated into state and interstate based on demand, as specified in Part III of Page B-2. The source for the information on Page B-2 is set forth on Worksheet 2.

### Page B-3

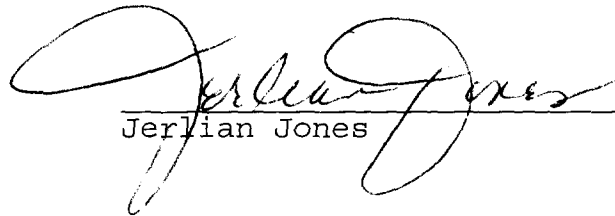
Page B-3 was not part of the Bureau's original spreadsheets. Page B-3 is added as cost support for CBT's STP Port Termination investment. Unit Investments and Unit Costs for STP Port Termination are taken from Worksheet 3. Worksheet 4 shows the sources for the jurisdictional separation of the STP Port Termination investment.

### Spreadsheet Notes

As required by Appendix B, Section I of the Order Designating Issues For Investigation, CBT has listed the Part 36 category of expense for the spreadsheet rows.

CERTIFICATE OF SERVICE

I, Jerlian Jones, do hereby certify on this 20th, day of September, 1993, that I have caused a copy of the foregoing **Cincinnati Bell Telephone Company's Direct Case** to be mailed via first class United States mail, postage prepaid, to the persons on this service list.



Jerlian Jones

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# SPREADSHEETS

# INFORMATION REQUEST FOR 800 DATABASE SERVICE COSTS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Land Acct 2111	Buildings Acct 2121	General Purpose Computers Acct 2124	Analog Switching Acct 2211	Digital Switching Acct 2212	Radio System Acct 2231	Circuit Equipment Acct 2232	Other Terminal Equipment Acct 2362	Poles Acct 2411	Aerial Cable Acct 2421	Underground Cable Acct 2422	Buried Cable Acct 2423	IntraBldg Network Cable Acct 2426	Aerial Wire Acct 2431	Conduit Systems Acct 2441	Total
<b>I. Unit Cost and Investment</b>																
<b>STP/SCP Signalling Link</b>																
Unit Investment																
Unit Costs																
Depreciation																
Net Return																
Federal Income Tax																
State & Local Income Tax																
Maintenance																
Administration																
Other Tax																
Other Direct Expense																
Overhead Loadings																
Total																
<b>Local STP/Regional STP Signalling Link</b>																
Unit Investment	46.46	1819.69	NONE	NONE	NONE	NONE	9884.24	NONE	NONE	NONE	2849	NONE	NONE	NONE	233.77	
Unit Costs																
Depreciation	0.00	73.68					1162.39				198.58				4.71	1439.58
Net Return	4.95	182.15					839.17				278.35				20.55	1325.17
Federal Income Tax	1.83	87.87					312.34				103.13				7.81	492.78
State & Local Income Tax	0.00	0.00					0.00				0.00				0.00	0.00
Maintenance	0.00	174.51					457.64				73.22				8.17	713.54
Administration	5.43	212.72					1399.81				380.83				27.34	2025.73
Other Tax	0.51	20.02					305.42				88.03				8.32	420.30
Other Direct Expense	0.62	24.38					132.45				38.18				2.74	198.37
Overhead Loadings	0.00	0.00					0.00				0.00				0.00	0.00
Total	13.34	755.53					4609.02				1160.12				77.44	6615.45
<b>Tandem Switch</b>																
Unit Investment																
Unit Costs																
Depreciation																
Net Return																
Federal Income Tax																
State & Local Income Tax																
Maintenance																
Administration																
Other Tax																
Other Direct Expense																
Overhead Loadings																
Total																
<b>SSP</b>																
Unit Investment																
Unit Costs																
Depreciation																
Net Return																
Federal Income Tax																
State & Local Income Tax																
Maintenance																
Administration																
Other Tax																
Other Direct Expense																
Overhead Loadings																
Total																

Source: Worksheet 1

## II. Jurisdictional Separations

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Land Acct 2111	Buildings Acct 2121	General Purpose Computers Acct 2124	Analog Switching Acct 2211	Digital Switching Acct 2212	Radio System Acct 2231	Circuit Equipment Acct 2232	Other Terminal Equipment Acct 2362	Poles Acct 2411	Aerial Cable Acct 2421	Underground Cable Acct 2422	Buried Cable Acct 2423	IntraBldg Network Cable Acct 2426	Aerial Wire Acct 2431	Conduit Systems Acct 2441	Total

## STP/SCP Signalling Link

Total Investment															
Total Company															
Subject to Separation															
State 800 Database															
State Other															
Interstate 800 Database															
Interstate Other															

## Method of Assignment

## Local STP/Regional STP Signalling Link

Total Investment = 4 x Unit	185.84	7,278.76	None	None	None	None	39,536.96	None	None	None	11,396.00	None	None	None	935.08
Total Company	185.84	7,278.76					39,536.96				11,396.00				935.08
Subject to Separation	185.84	7,278.76					39,536.96				11,396.00				935.08
State 800 Database	92.67	3,629.57					19,715.21				5,682.64				466.28
State Other															
Interstate 800 Database	93.17	3,649.19					19,821.75				5,713.36				468.80
Interstate Other															

## Method of Assignment

By Demand

By Demand

By Demand

By Demand

## Tandem Switch

Total Investment															
Total Company															
Subject to Separation															
State 800 Database															
State Other															
Interstate 800 Database															
Interstate Other															

## Method of Assignment

## SSP

Total Investment															
Total Company															
Subject to Separation															
State 800 Database															
State Other															
Interstate 800 Database															
Interstate Other															

## Method of Assignment

Source: Worksheet 2

## III. Demand

A
261,914,003
Total

## 800 Database Queries

State 800 Database	130,604,096
State Other	
Interstate 800 Database	131,309,907
Interstate Other	
Unbillable Query Factor	

Source: Worksheet 2

Additional Function Page

## INFORMATION REQUEST FOR 800 DATABASE SERVICE COSTS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Land Acct 2111	Buildings Acct 2121	General Purpose Computers Acct 2124	Analog Switching Acct 2211	Digital Switching Acct 2212	Radio System Acct 2231	Circuit Equipment Acct 2232	Other Terminal Equipment Acct 2362	Poles Acct 2411	Aerial Cable Acct 2421	Underground Cable Acct 2422	Buried Cable Acct 2423	IntraBldg Network Cable Acct 2426	Aerial Wire Acct 2431	Conduit Systems Acct 2441	Total
I. Unit Cost and Investment																
STP Port Termination																
Unit Investment	96.93	2,465.48	NONE	NONE	19,006.28	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	
Unit Costs																
Depreciation	0.00	108.11			1,811.20											1,919.31
Net Return	10.32	263.00			1,700.97											1,964.28
Federal Income Tax	3.83	94.25			632.88											730.96
State & Local Income Tax	0.00	0.00			0.00											0.00
Maintenance	0.00	251.93			1,683.87											1,935.80
Administration	12.13	307.18			2,879.30											3,198.61
Other Tax	1.07	27.76			604.37											633.18
Other Direct Expense	1.30	33.89			262.27											297.46
Overhead Loadings	0.00	0.00			0.00											0.00
Total	28.64	1,076.10			9,574.86											10,679.60

SOURCE

Worksheet 3

## II. Jurisdictional Separations

STP Port Termination																
Total Investment = 4 x Unit	387.71	9,821.93	None	None	76,021.10	None	None	None	None	None	None	None	None	None	None	
Total Company	387.71	9,821.93			76,021.10											
Subject to Separation	387.71	9,821.93			76,021.10											
State 800 Database	193.33	4,897.73			37,908.12											
State Other																
Interstate 800 Database	194.38	4,924.20			38,112.98											
Interstate Other																
Method of Assignment	by Demand	by Demand			by Demand											

SOURCE

Worksheet 4

## III. Demand

800 Database Queries	
State 800 Database	130,604,098
State Other	
Interstate 800 Database	131,309,807
Interstate Other	
Unbillable Query Factor	

\*\*\* SAME AS B-2, Section III. Demand

**SPREADSHEET NOTES:**

In response to the request of Appendix B, Section I, Paragraph 3 of the order,  
Page B-1, B-2, & B-3 rows are categorized as follows:

<b>STP Port Termination</b>	
	<b><i>Part 36 Category of Expense</i></b>
Maintenance	Plant Specific (6120, 6110 & 6210)
Administration	6720
Other Direct Expenses	6720
Overhead Loadings	

<b>Local STP/Regional STP Link</b>	
	<b><i>Part 36 Category of Expense</i></b>
Maintenance	Plant Specific (6120, 6110 & 6210)
Administration	6720
Other Direct Expenses	6720
Overhead Loadings	

Source: CBT Separations



# WORKSHEETS

**WORKSHEET 1****Page B-1 Development & Sources****I. Unit Cost and Investment**FUNCTION: *Local STP/Regional STP Signalling Link*

Annual Charge Factors	Row within Facility Study DS12 & DS13						0.1	0.2
		A Land	B Buildings	G Circuit Eqpt	K UG Cable	O = 0.1 x 0.2 Conduit Sys	Conduit ACF	.3313/.3784 Factor
Depreciation	Book Depreciation	0.0000	0.0408	0.1178	0.0697	0.0201	0.0230	0.8755
Net Return	Post Tax Income	0.1085	0.1001	0.0849	0.0977	0.0879	0.1004	0.8755
Federal Income Tax	Income Tax	0.0395	0.0373	0.0316	0.0382	0.0326	0.0372	0.8755
State & Local Income Tax		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8755
Maintenance	Mtce.	0.0000	0.0959	0.0463	0.0257	0.0349	0.0399	0.8755
Administration	Admin. Exp.	0.1169	0.1169	0.1416	0.1336	0.1170	0.1336	0.8755
Other Tax	Property Tax	0.0110	0.0110	0.0309	0.0309	0.0271	0.0309	0.8755
Other Direct Expense	General Svc Exp	0.0134	0.0134	0.0134	0.0134	0.0117	0.0134	0.8755
Overhead Loadings		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8755

Source: Col A, B, G, K Facility Cost Study Study, DS12 &amp; DS13, Attached.

Col O - Facility Cost Study Study, DS13: Ratio of Conduit Factor (.3313) to Total Conduit ACF (.3784) applied to each individual element of the Conduit ACF. ie. Col O = Col O.1 x Col O.2

Col O.1 - Facility Cost Study Study, DS 13

Col O.2 = 0.3313 / 0.3784

**Unit Investment**

Investment	\$46.46	\$1,819.69	\$9,884.24	\$2,849.00	\$233.77
Source:	Pg 1, L46, Col I	Pg 1, L46, Col J	Pg 1, L46, Col H	Pg 3, L46	Pg 5, L44

Source: Facility Cost Study Summary (Pages 1-5) Attached

**Unit Costs**

Unit Costs	A Land	B Buildings	G Circuit Eqpt	K UG Cable	O Conduit Sys
Depreciation	\$0.00	\$73.88	\$1,162.39	\$198.58	\$4.71
Net Return	\$4.95	\$182.15	\$839.17	\$278.35	\$20.55
Federal Income Tax	\$1.83	\$67.87	\$312.34	\$103.13	\$7.61
State & Local Income Tax	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Maintenance	\$0.00	\$174.51	\$457.64	\$73.22	\$8.17
Administration	\$5.43	\$212.72	\$1,399.61	\$380.63	\$27.34
Other Tax	\$0.51	\$20.02	\$305.42	\$88.03	\$6.32
Other Direct Expense	\$0.62	\$24.38	\$132.45	\$38.18	\$2.74
Overhead Loadings	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Source: Unit Costs = Unit Investments x Annual Charge Factor

## WORKSHEET 2

### Page B-2 Sources

#### II. Jurisdictional Separations

FUNCTION: *Local STP/Regional STP Signalling Link*

Total Investment = Unit Investment (Sec. 1 above) x 4 ports

Total Company = Total Investment

Subject to Separation = Total Investment

State 800 Database = Total Investment x (State 800 Demand / Total Demand)

Interstate 800 Database = Total Investment x (Interstate 800 Demand / Total Demand)

Method of Assignment: per CBT Separations

#### III. Demand

State 800 Database: 800 Database Study, CBT Forecasting, Tab B, Page 3

Interstate 800 Database: 800 Database Study, CBT Forecasting

Total = State 800 + Interstate 800

## WORKSHEET 3

Source for Page B-3, STP Port Investment &amp; Cost Development

Line	Description	Source
1	\$17,045.09 Per Port STP Investment	STP Port Cost Study, Tab A, Page 3, Line 4
2	1.1150 Power & Telco Engineering	Tab C, Page 1, Line 3 (Tac Factor Development)
3	\$19,005.28 TOTAL STP Port Investment	L1 * L2
4		
5	0.0051 Ratio of Land to 377C (Total)	Tab C, Page 1, Line 15 (Tac Factor Development)
6	\$96.93 TOTAL Land Investment Associated with 377C	L5 * L3
7		
8	0.1160 Ratio of Building to 377C - Host	Tab C, Page 1, Line 6 (Tac Factor Development)
9	\$2,204.61 Host Building Investment (LARGE)	L8 * L3
10	0.0066 Ratio of Building to 377C ( Remote - Large)	Tab C, Page 1, Line 9 (Tac Factor Development)
11	\$125.43 Remote Building Investment (LARGE)	L10 * L3
12	\$2,330.05 TOTAL LARGE BUILDING	L9 + L11
13	0.0066 Ratio of Building to 377C ( Remote - Small)	Tab C, Page 1, Line 12 (Tac Factor Development)
14	\$125.43 TOTAL Remote Building Investment (SMALL)	L13 * L3
15	\$2,455.48 TOTAL BUILDING INVESTMENT	L12 + L14

Line	Row within ACF Source*	Land		Large Bldg		Small Bldg		Total Building	Digital Sw	
		Factor	Cost	Factor	Cost	Factor	Cost	Cost	Factor	Cost
19		A	B = A x L6	C	D = C x L12	E	F = E x L14	G = D + F	H	I = H x L3
20	Depreciation	0.0000	\$0.00	0.0418	\$97.40	0.0854	\$10.71	\$108.11	0.0953	\$1,811.20
21	Net Return	0.1065	\$10.32	0.1031	\$240.23	0.1018	\$12.77	\$253.00	0.0895	\$1,700.97
22	Federal Income Tax	0.0395	\$3.83	0.0384	\$89.47	0.0381	\$4.78	\$94.25	0.0333	\$632.88
23	State & Local Income Tax	0.0000	\$0.00	0.0000	\$0.00	0.0000	\$0.00	\$0.00	0.0000	\$0.00
24	Maintenance	0.0000	\$0.00	0.1026	\$239.06	0.1026	\$12.87	\$251.93	0.0886	\$1,683.87
25	Administration	0.1251	\$12.13	0.1251	\$291.49	0.1251	\$15.69	\$307.18	0.1515	\$2,879.30
26	Other Tax	0.0110	\$1.07	0.0113	\$26.33	0.0113	\$1.42	\$27.75	0.0318	\$604.37
27	Other Direct Expense	0.0134	\$1.30	0.0138	\$32.15	0.0138	\$1.73	\$33.89	0.0138	\$262.27
28	Overhead Loadings	0.0000	\$0.00	0.0000	\$0.00	0.0000	\$0.00	\$0.00	0.0000	\$0.00

## Above Factor Source:

STP Port Cost Study, Tab C, Page 2

Col A = Line 11

Col C = Line 6

Col E = Line 9

Col H = Line 3

\*ACF = Annual Charge Factor

**WORKSHEET 4**

Page B-3 Sources (Parts II & III)

**II. Jurisdictional Separations****FUNCTION:**

Total Investment = Unit Investment x 4 ports

Total Company = Total Investment

Subject to Separation = Total Investment

State 800 Database = Total Investment x (State 800 Demand / Total Demand)

Interstate 800 Database = Total Investment x (Interstate 800 Demand / Total Demand)

Method of Assignment: per CBT Separations

**III. Demand**

State 800 Database: 800 Database Study, CBT Forecasting, Tab B, Page 3

Interstate 800 Database: 800 Database Study, CBT Forecasting

Total = State 800 + Interstate 800

**WORKSHEET 5****Cost Study Summary Calculations - per Appendix B, Sec. IV, Question 11****I. Other Costs Incurred to Supply 800 Data Base Service**

1	Non-Recurring Costs for STP Ports	1,235.72	Installation and Translations
2	IXC Transport to SCP Provider	18,089.24	per Month
3	IXC Non-Recurring Charges	500.00	One-Time Charge
4	SCP Provider STP Port Charges	2,960.00	per Month
5	SCP Provider STP Non-Recurring	3,560.00	One-Time Charge

**Source**

800 Data Base Cost Study:

Tab B, Page 7, Line 4

Tab B, Page 5, Line 3

Tab B, Page 5, Line 3

Tab B, Page 4, Line 1

Tab B, Page 4, Line 2

**II. Cost Summary**

	<u>Unit</u> (A)	<u>Quantity</u> (B)	<u>Annual Total</u> (C) = A x B	<u>Part 32 Expense Account</u> (For non-plant based expenses)	<u>Col (A) Source</u>
6 STP Port Termination Costs (Annual)	10,679.60	4.00	42,718.42	<i>Plant Based</i>	Sheet B-3, STP Port, Col P Annual Total
7 STP Port Non-Recurring Costs	1,235.72	1.00	1,235.72	Acct: 6212*	Line 1
8 CBT Link Facility Costs (Annual)	6,615.45	4.00	26,461.80	<i>Plant Based</i>	Sheet B-1, STP/Regional Link, Col P, Annual Total
9 IXC Transport to SCP Provider (Monthly)	18,089.24	12.00	217,070.88	Acct: 6212	Line 2
10 IXC Non-Recurring Charges	500.00	1.00	500.00	Acct: 6212	Line 3
11 SCP Provider STP Port Charges (Monthly)	2,960.00	12.00	35,520.00	Acct: 6212	Line 4
12 SCP Provider STP Non-Recurring	3,560.00	1.00	3,560.00	Acct: 6212	Line 5
13 Total Annual Cost			327,066.82		L6 + L7 + L8 + L9 + L10 + L11 + L12
14 Total Annual Query Attempts			261,914,003		Sheet B-2, Sec. III, Demand Total
15 Cost per Query			0.001249		L13 / L14

\* Acct: 6212 - Expenses related to Acct 2212 - Digital Electronic Switching

Col B - Per 800 Database Study (4 ports, 4 lines)

# ATTACHMENTS

## FULLY ASSIGNED

## Facility Cost Study Summary

17-Feb-83

## EQUIPMENT WORKSHEET (WS1)

	MATERIAL PRICE (PCNAP) (A)	'83 TPI 357C (B)	CKT. FILL (C)	UTIL FACTOR (D)	IN-PLANT FACTOR (E)	VG EQUIV. CIRCUIT CAPACITY (PCNAP) (F)	POWER & COMM. EQ. (G)	UNIT INVESTMENT (EXCL L&B) (H)	LAND FACTOR 0.0047 (I)	BLDG FACTOR 0.1841 (J)
<b>A-SPRINT POP TO EVDL STP</b>										
1. FTG - 417 Mbs	\$23,051.00	0.99	77.1%	77.1%	1.5216	6,048	1.12244	\$260.18	\$1.22	\$47.90
2. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$3.22	\$0.02	\$0.59
3. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$3.22	\$0.02	\$0.59
4. FTG - 417 Mbs	\$23,051.00	0.99	77.1%	77.1%	1.5216	6,048	1.12244	\$260.18	\$1.22	\$47.90
5. DACS - 3/1	\$610,180.55	0.99	77.1%	77.1%	1.5216	66,956	1.12244	\$622.11	\$2.92	\$114.53
6. FTG2 - 1.7 Gbs	\$118,899.00	0.99	77.1%	77.1%	1.5216	24,192	1.12244	\$335.51	\$1.58	\$61.77
7. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$3.22	\$0.02	\$0.59
8. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$3.22	\$0.02	\$0.59
9. FTG2 - 1.7 Gbs	\$118,899.00	0.99	77.1%	77.1%	1.5216	24,192	1.12244	\$335.51	\$1.58	\$61.77
10. DACS - 3/1	\$610,180.55	0.99	77.1%	77.1%	1.5216	66,956	1.12244	\$622.11	\$2.92	\$114.53
11. D4	\$6,423.43	0.99	100.0%	100.0%	1.5216	1	1.12244	\$10,860.90	\$51.05	\$1,999.49
<b>B-AT&amp;T WS POP TO WS STP</b>										
12. M13	\$12,502.00	0.99	77.1%	77.1%	1.5216	1,344	1.12244	\$635.01	\$2.98	\$116.91
13. FTG2 - 1.7 Gbs	\$118,899.00	0.99	77.1%	77.1%	1.5216	24,192	1.12244	\$335.51	\$1.58	\$61.77
14. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$3.22	\$0.02	\$0.59
15. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$3.22	\$0.02	\$0.59
16. FTG2 - 1.7 Gbs	\$118,899.00	0.99	77.1%	77.1%	1.5216	24,192	1.12244	\$335.51	\$1.58	\$61.77
17. DACS - 3/1	\$610,180.55	0.99	77.1%	77.1%	1.5216	66,956	1.12244	\$622.11	\$2.92	\$114.53
<b>C-AT&amp;T EVDL POP TO EVDL STP</b>										
18. DACS - 3/1	\$610,180.55	0.99	77.1%	77.1%	1.5216	66,956	1.12244	\$622.11	\$2.92	\$114.53
19. D4	\$6,423.43	0.99	100.0%	100.0%	1.5216	1	1.12244	\$10,860.90	\$51.05	\$1,999.49
<b>D-WS STP TO AT&amp;T EVDL POP</b>										
20. D4	\$6,423.43	0.99	100.0%	100.0%	1.5216	1	1.12244	\$10,860.90	\$51.05	\$1,999.49
21. DACS - 3/1	\$610,180.55	0.99	77.1%	77.1%	1.5216	66,956	1.12244	\$622.11	\$2.92	\$114.53
22. FTG2 - 1.7 Gbs	\$118,899.00	0.99	77.1%	77.1%	1.5216	24,192	1.12244	\$335.51	\$1.58	\$61.77
23. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$3.22	\$0.02	\$0.59
24. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$3.22	\$0.02	\$0.59
25. FTG2 - 1.7 Gbs	\$118,899.00	0.99	77.1%	77.1%	1.5216	24,192	1.12244	\$335.51	\$1.58	\$61.77
26. DACS - 3/1	\$610,180.55	0.99	77.1%	77.1%	1.5216	66,956	1.12244	\$622.11	\$2.92	\$114.53
<b>E-ACCESS TANDEM TO EVDL STP</b>										
27. D4	\$69,260.00	0.99	77.1%	77.1%	1.5216	192	1.12244	\$2,052.11	\$9.64	\$377.79
28. M13	\$12,502.00	0.99	77.1%	77.1%	1.5216	1,344	1.12244	\$52.92	\$0.25	\$9.74
29. FTG2 - 1.7 Gbs	\$118,899.00	0.99	77.1%	77.1%	1.5216	24,192	1.12244	\$27.96	\$0.13	\$5.15
30. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$0.27	\$0.00	\$0.05
31. LGX	\$23,130.00	0.99	77.1%	77.1%	1.5216	489,888	1.12244	\$0.27	\$0.00	\$0.05
32. FTG2 - 1.7 Gbs	\$118,899.00	0.99	77.1%	77.1%	1.5216	24,192	1.12244	\$27.96	\$0.13	\$5.15
33. M13	\$12,502.00	0.99	77.1%	77.1%	1.5216	1,344	1.12244	\$52.92	\$0.25	\$9.74
34. D4	\$69,260.00	0.99	77.1%	77.1%	1.5216	192	1.12244	\$2,052.11	\$9.64	\$377.79
<b>F-ACCESS TANDEM TO WS STP</b>										
35. D4	\$69,260.00	0.99	77.1%	77.1%	1.5216	192	1.12244	\$2,052.11	\$9.64	\$377.79
36. DACS - 1/0	\$593,428.00	0.99	77.1%	77.1%	1.5216	15,360	1.12244	\$219.78	\$1.03	\$40.46
37. D4	\$69,260.00	0.99	77.1%	77.1%	1.5216	192	1.12244	\$2,052.11	\$9.64	\$377.79
38. DACS - 1/0	\$593,428.00	0.99	77.1%	77.1%	1.5216	15,360	1.12244	\$219.78	\$1.03	\$40.46
<b>JUMPERS</b>										
39. FOR A - ABOVE	\$28.81	0.99	77.1%	77.1%	1.5216	144	1.12244	\$13.66	\$0.06	\$2.51
40. FOR D - ABOVE	\$28.81	0.99	77.1%	77.1%	1.5216	144	1.12244	\$13.66	\$0.06	\$2.51
41. TOTALS:	\$6,410,407.21							\$48,347.25	\$227.23	\$8,900.73
42. ANNUAL COST FACTORS (INTERSTATE-TOTAL COMPANY):								0.4663	0.2873	0.4152
43. ANNUAL COST:								\$22,544.32	\$65.28	\$3,695.58
44. MONTHLY COST:								\$1,878.69	\$5.44	\$307.97

45 STP TO POP INVESTMENTS Lines 1 thru 26 plus lines 39 and 40 \$39,536.94 \$185.82 \$7,278.75

46. Unit Investment

L45 ÷ 4 = 9,884.24 46.46 1,819.69



## FACILITIES WORKSHEET (WS2a)

			#FIBERS or CABLES (A)	LENGTH FEET (B)	COST PER STR/FT (C)	COST PER STRAND (D=B*C)	1993 FILL (E)	COST W/FILL (F=D/E)	DS1/DS0 EQUIV (G)	COST PER DS1/DS0 (H=F/G)
<b>A-SPRINT POP TO EVDL STP</b>										
1.	SCIMD-WS	LG05	72	4,000	0.15	600.00	0.454	\$1,321.59	182.7	\$7.23
2.			48	2,600	0.18	468.00	0.454	\$1,030.84	182.7	\$5.64
3.			24	6,200	0.13	806.00	0.454	\$1,775.33	182.7	\$9.72
4.			12	100	0.49	49.00	0.454	\$107.93	182.7	\$0.59
5.	WS-AV	LG908	96	6,397	0.13	831.61	0.454	\$1,831.74	730.8	\$2.51
6.			60	12,305	0.165	2,030.33	0.454	\$4,472.08	730.8	\$6.12
7.	AV-NW	LG903	84	19,600	0.14	2,744.00	0.454	\$6,044.05	730.8	\$8.27
8.	NW-RO	LG902	192	8,504	0.08	680.32	0.454	\$1,498.50	730.8	\$2.05
9.			96	6,272	0.13	815.36	0.454	\$1,795.95	730.8	\$2.46
10.			96	15,822	0.13	2,056.86	0.454	\$4,530.53	730.8	\$6.20
11.			96	9,654	0.13	1,255.02	0.454	\$2,764.36	730.8	\$3.78
12.	RO-EV	LG903	144	11,300	0.08	904.00	0.454	\$1,991.19	730.8	\$2.72
13.			60	13,500	0.165	2,227.50	0.454	\$4,906.39	730.8	\$6.71
<b>B-AT&amp;T WS POP TO WS STP</b>										
14.	WSWC2-WS	LG909	12	328	0.49	160.72	0.454	\$354.01	730.8	\$0.48
<b>C-AT&amp;T EVDL POP TO EVDL STP</b>										
15.	EV2MD-EV	24 COAX CABLE	24	328	2.84	931.52	0.333	\$2,797.36	N/A	\$2,797.36
<b>D-WS STP TO AT&amp;T EVDL POP</b>										
16.	WS-NS	LG906	96	2,900	0.13	377.00	0.454	\$830.40	730.8	\$1.14
17.			96	16,100	0.13	2,093.00	0.454	\$4,610.13	730.8	\$6.31
18.			144	6,350	0.08	508.00	0.454	\$1,118.94	730.8	\$1.53
19.			204	7,150	0.08	572.00	0.454	\$1,259.91	730.8	\$1.72
20.	NS-SB	LG752	72	9,200	0.15	1,380.00	0.454	\$3,039.65	730.8	\$4.16
21.			72	6,200	0.15	930.00	0.454	\$2,048.46	730.8	\$2.80
22.			72	6,600	0.15	990.00	0.454	\$2,180.62	730.8	\$2.98
23.	SB-HW	LG754	108	21,325	0.1175	2,505.69	0.454	\$5,519.14	730.8	\$7.55
24.	HW-EV	LG752	108	6,926	0.1175	813.81	0.454	\$1,792.52	730.8	\$2.45
25.			72	4,282	0.15	642.30	0.454	\$1,414.76	730.8	\$1.94
26.			72	9,635	0.15	1,445.25	0.454	\$3,183.37	730.8	\$4.36
27.	EV-EV2MD	24 COAX CABLE	24	328	2.84	931.52	0.333	\$2,797.36	N/A	\$2,797.36
<b>E-ACCESS TANDEM TO EVDL STP</b>										
<b>STP TO POP INVESTMENTS Lines 1 thru 27</b>										<b>\$5,696.15</b>
28.	WS-AV	LG908	96	6,397	0.13	831.61	0.454	\$1,831.74	17,539.2	\$0.10
29.			60	12,305	0.165	2,030.33	0.454	\$4,472.08	17,539.2	\$0.25
30.	AV-NW	LG903	84	19,600	0.14	2,744.00	0.454	\$6,044.05	17,539.2	\$0.34
31.	NW-RO	LG902	192	8,504	0.08	680.32	0.454	\$1,498.50	17,539.2	\$0.09
32.			96	6,272	0.13	815.36	0.454	\$1,795.95	17,539.2	\$0.10
33.			96	15,822	0.13	2,056.86	0.454	\$4,530.53	17,539.2	\$0.26
34.			96	9,654	0.13	1,255.02	0.454	\$2,764.36	17,539.2	\$0.16
35.	RO-EV	LG903	144	11,300	0.08	904.00	0.454	\$1,991.19	17,539.2	\$0.11
36.			60	13,500	0.165	2,227.50	0.454	\$4,906.39	17,539.2	\$0.28
<b>F-ACCESS TANDEM TO WS STP</b>										
37.	WSK03-WS	3600 PAIR CABLE	3,600	328	0.0139	4.56	0.676	\$6.74	N/A	\$6.74
38.	TOTALS:							\$96,858.62		\$5,704.60
39.	ANNUAL COST FACTORS (INTERSTATE-TOTAL COMPANY-85C):							0.4072		0.4072
40.	ANNUAL COST:							\$39,440.83		\$2,322.91
41.	MONTHLY COST:							\$3,286.74		\$193.58

85C